

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification: G07F 17/34, A63F 9/24	A1	(11) International Publication Number: WO 00/17831 (43) International Publication Date: 30 March 2000 (30.03.2000)
(21) International Application Number: PCT/US99/21296		Published
(22) International Filing Date: 10 September 1999 (10.09.1999)		
(30) Priority Data: 09/157,996 22 September 1998 (22.09.1998) US		
(60) Parent Application or Grant ADAMS, William, R. [/]; O. ADAMS, William, R. [/]; O. BURKE, Daniel, P.; O.		
<p>(54) Title: GAMING UNIT WITH AN ADDITIONAL PAYOUT INDICATOR (54) Titre: UNITE DE JEUX DE HASARD AVEC INDICATEUR DE BONIFICATION</p> <p>(57) Abstract</p> <p>Gaming devices comprising a standard gaming unit (100), e.g., three reels (10), and a discernible additional payout indicator (40), e.g., a rotatable wheel. A preferred bonus payout indicator (150) is clearly visible by the player and is actuatable when the reels (10) of the slot machine stop on certain predetermined indicia. A preferred embodiment further comprises a payout multiplier (270) which displays a plurality of values by which a payout may be multiplied.</p> <p>(57) Abrégé</p> <p>L'invention concerne des dispositifs de jeux de hasard comprenant une unité standard de jeux de hasard (100), par exemple trois rouleaux (10), et un indicateur de bonification apparent (40), par exemple une roue orientable. Un indicateur de bonification préféré (150), facilement visible par le joueur, peut être actionné lorsque lesdits rouleaux (10) de la machine à sous s'arrêtent sur un symbole prédéterminé. Dans un mode de réalisation préféré, les dispositifs susmentionnés comprennent également un multiplicateur de paiement (270) destiné à afficher différentes valeurs par lesquelles un paiement peut être multiplié.</p>		

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G07F 17/34, A63F 9/24	A1	(11) International Publication Number: WO 00/17831 (43) International Publication Date: 30 March 2000 (30.03.00)
(21) International Application Number: PCT/US99/21296 (22) International Filing Date: 10 September 1999 (10.09.99) (30) Priority Data: 09/157,996 22 September 1998 (22.09.98) US (71)(72) Applicant and Inventor: ADAMS, William, R. [US/US]; 7382 Nectar Circle, Las Vegas, NV 89117 (US). (74) Agent: BURKE, Daniel, P.; Galgano & Burke, Suite 135, 300 Rabro Drive, Hauppauge, NY 11788 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: GAMING UNIT WITH AN ADDITIONAL PAYOUT INDICATOR		
(57) Abstract		
<p>Gaming devices comprising a standard gaming unit (100), e.g., three reels (10), and a discernible additional payout indicator (40), e.g., a rotatable wheel. A preferred bonus payout indicator (150) is clearly visible by the player and is actuatable when the reels (10) of the slot machine stop on certain predetermined indicia. A preferred embodiment further comprises a payout multiplier (270) which displays a plurality of values by which a payout may be multiplied.</p>		

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IK	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NB	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

Description

5

10

15

20

25

30

35

40

45

50

55

5

GAMING UNIT WITH AN ADDITIONAL PAYOUT INDICATOR

10

The present invention is directed to novel gaming devices and, more particularly, to gaming devices comprising at least primary and secondary events capable of providing at least one of a plurality of payouts.

15

RELATED APPLICATION DATA

20

This application is a continuation-in-part of copending U.S. Patent Application Serial No. 08/907,764 filed on August 8, 1997, now abandoned which is a continuation-in-part of U.S. Patent Application Serial No. 08/311,783 filed on September 23, 1994, now abandoned.

25

BACKGROUND OF THE INVENTION

30

Games of chance have been enjoyed by people for years and have enjoyed widespread popularity in recent times. Many people enjoy playing a wide variety of games that they have not played before. Playing new games adds to the excitement of this recreational activity particularly when some form of "gaming" is involved. As used herein, the term "gaming" and "gaming devices" are used to indicate that some form of wagering is involved, and that players must make wagers of value, whether actual currency or some equivalent of value, e.g., token or credit.

35

40

45

One popular game of chance that has long been enjoyed by many players is the slot machine. Conventionally, a slot machine is configured for a player to input something of value, e.g., a

SUBSTITUTE SHEET (RULE 26)

55

5 standard domination of currency or house token or other
representation of currency or credit, and then to permit the player
to activate the device which causes a plurality of reels to spin
10 and ultimately stop to display a random combination of some form
of indicia, for example, numbers or symbols. If this display
contains one of a preselected plurality of winning combinations,
15 the machine releases money into a payout chute or onto a credit
meter for the player. For example, if a player initially wagered
two coins of a national currency and that player won a high payout,
20 that player may receive fifty coins of the same denomination in
return.

25

Since it is desirable to offer players games which they
have not played before, it would be desirable to provide a player
30 with new games and additional opportunities to receive winning
payouts.

35

Those familiar with games involving winning payouts, such
as the popular television game show entitled "WHEEL OF FORTUNE"
40 will realize that as players and observers watch a large wheel spin
and gradually come to rest, the players experience a heightened
feeling of anticipation and excitement as the wheel is slowing down
45 to indicate a possible prize.

It would therefore also be desirable to provide a payout
50 indicator which is discernible by a player and/or other observers.

5

SUMMARY OF THE INVENTION

10

Various embodiments of the present invention comprise methods of playing games, gaming devices and table games utilizing a primary game, e.g., rotatable reels, and at least one discernible indicia of a secondary game, preferably comprising a payout indicator. The secondary game is separate from the primary game either physically or temporally.

15

20

According to the most preferred embodiments, a bonus payout indicator is clearly visible to a player and is operable when primary reels of a primary game slot machine stop on certain predetermined indicia. According to one preferred embodiment of the present invention, a secondary payout indicator is in the form of a rotatable bonus wheel which can be caused to spin automatically or in response to some action by a player, e.g., the player pushing a button, when the primary game indicates one of a predetermined plurality of indicia. The wheel is caused to gradually reduce speed and when the wheel stops, a pointer indicates the payout to be awarded to the player.

25

30

35

40

45

50

Another preferred embodiment of the present invention further comprises a discernible multiplier which provides the ability to change either the payout from the primary gaming unit or the secondary payout indicator, or both. As described in more detail below, it is within the scope of the present invention to provide a payout from the primary gaming unit, a payout indicated

5 by the secondary indicator only, a payout from the primary gaming
unit or the secondary indicator as changed by the multiplier, or
10 a separate, plurality of payouts from the primary gaming unit and
the secondary indicator either with or without modification by a
multiplier.

15 According to one preferred embodiment of the present
invention, the mechanical bonus payout indicator is electronically
20 operated and is linked to a random number generator which
determines where the secondary indicator actually stops.

25 According to another preferred embodiment of the present
invention, when the primary unit stop on one of a predetermined
plurality of winning indicia sets, a second event actuator is
30 placed in an active state. According to this embodiment, a person,
such as the player, must actuate the actuator in order to operate
the bonus indicator.

35 According to another embodiment of the present invention,
40 the bonus actuator requires operator intervention so that a player
must involve a casino attendant who can activate the bonus
indicator.

45 According to another preferred embodiment of the present
invention, the bonus indicator is connected to a drive mechanism
50

which gradually reduces the rate of spin of the bonus wheel before the bonus wheel stops.

10 Still other embodiments of the present invention comprise
gaming devices having electronic means for displaying indicia of
rotatable reels such as a video screen and/or means for displaying
15 indicia of a secondary payout indicator, such as a video screen.
The present invention also comprises methods for playing a game of
20 chance. One preferred method comprises the steps of displaying a
first randomly selected combination of indicia, said displayed
indicia selected from the group consisting of slot reels, indicia
25 of at least one reel, indicia of at least one playing card, and
combinations thereof; generating at least one signal corresponding
30 to at least one select display of first indicia; providing at least
one discernible indicia of a mechanical bonus indicator, said bonus
35 indicator indicia indicating at least one of a plurality of
possible payouts, wherein said bonus indicator indicia providing
means is operatively connected to said first, standard gaming unit
40 and actuatable in response to said signal. According to one
preferred embodiment, the discernible indicia of a mechanical bonus
indicator gradually reduces the rate of movement of the mechanical
45 bonus indicator for some period of time prior to actually providing
the discernible indicia of a payout. According to another
embodiment, a multiplier is provided to multiply at least one
50 payout by a multiple which is most preferably indicated to a
player. The multiple can preferably sequentially change as

5 discernible indicia change. For example, a plurality of multiples
can be synchronized with a plurality of discernible indicia on the
mechanical bonus indicator such that the multiple changes as the
10 payout indicated changes.

15 Further embodiments of the present invention comprise a
method of conducting a game of chance comprising the steps of
providing a player with an opportunity to place a wager; displaying
20 a randomly selected combination of indicia, said displayed indicia
selected from the group consisting of reels, indicia of at least
one and preferably a plurality of reels, indicia of at least one
25 and preferably a plurality of playing cards, and combination
thereof; generating at least one signal corresponding to at least
one select display of said indicia; providing at least one
30 discernible indicia of a mechanical bonus indicator, said bonus
indicator indicia indicating at least one of a plurality of
possible bonuses, wherein said bonus indicator indicia is in the
35 form of a wheel or reel and is actuatable in response to said
signal.

40 Other embodiments provide methods and gaming devices
wherein a secondary gaming unit comprises indicia of a TIC-TAC-TOE-
45 type game. According to this embodiment, a player receives awards
based upon the outcome of a randomly determined TIC-TAC-TOE-type
game.

50

55

5

BRIEF DESCRIPTION OF THE DRAWINGS

10

FIG. 1 is a perspective view one of a gaming device of one embodiment of the present invention.

15

FIG. 2 is another embodiment of a gaming device of the present invention.

20

FIG. 3 illustrates an alternative embodiment of the present invention.

25

FIG. 4 is an alternative embodiment of the present invention in the form of a table game.

30

FIG. 5 illustrates a reel screen for a primary game of an alternative embodiment of the present invention.

35

FIG. 6 illustrates a payout table for a TIC-TAC-TOE-type game of the embodiment illustrated in FIG. 5.

40

FIG. 7 illustrates a display of secondary gaming unit of the embodiment illustrated in FIGS. 5 and 6.

45

FIG. 8 is an expanded view of the payout schedule and a display window of a TIC-TAC-TOE-type embodiment of the present invention.

50

DETAILED DESCRIPTION

40

The various embodiments of the present invention are designed to provide added excitement to a board/table game or gaming device in order to increase the enjoyment of players and to serve as an added attraction to potential players. On preferred embodiment of the present invention, illustrated in FIG. 1, comprises a primary gaming unit which comprises three rotatable

45

50

5 reels 10, each of which comprise a plurality of indicia on the
periphery thereof. The illustrated gaming device comprises a
10 mechanical lever 12, coin slot 14, currency validator 16 and a
credit card validator 18. In a manner which will be recognized by
15 those skilled in the art, each reel 10 is designed to rotate and
then stop in order to visually display at least one, and preferably
a number of indicia. If the collection of indicia displayed by the
20 three reels is one of a predetermined plurality of winning indicia
sets, then the player can typically be provided with a winning
payout either through coin chute 20 which deposits winnings into
a coin through 30 or by increasing the player's credits in a credit
25 window 40.

30 According to one aspect of the present invention, when
the reels 10 display at least one of a plurality of predetermined
winning indicia or indicia sets then the player is provided with
an opportunity for a secondary payout. According to this
35 illustrated embodiment of the present invention, a bonus actuator
button 50 is placed in an operative state when reels 10 display a
bonus indicia set. A player must then depress bonus actuator 50
40 in order to start bonus indicator 70 spinning. In the illustrated
embodiment, bonus indicator 70 is in the form of a rotatable wheel.
The wheel may be a carnival-type wheel comprising pegs and a
45 clapper or could take one or more other forms, such as a fanciful
wheel typically used in a roulette game as shown in the embodiment
of FIG. 2. If a preferred motor driven wheel is utilized, it is
50

5 preferably linked to some random value generator in order to
randomly determine where the wheel will actually stop. In order
to enhance the playing experience, sound effects corresponding to
10 a clapper slapping against pegs of a carnival wheel are preferably
provided as the wheel passes from one segment to another. The
bonus indicator 70 is also preferably controlled so that the rate
15 of spin is reduced, most preferably gradually reduced, prior to
stopping in order to simulate a mechanical spinning wheel.

20
25
30 The facing surface of bonus indicator 70 of FIG. 1
comprises four distinct areas bearing indicia of the bonus payout
to the player. In the illustrated embodiment, the bonus indicator
has areas indicating bonuses of \$25.00, \$50.00, \$100.00, and
\$2,000.00. When bonus indicator 70 stops, an indicator (not shown)
will indicate the area on the bonus wheel corresponding to the
amounts of the bonus to be provided to the player.

35
40
45 In a manner which will be appreciated by those skilled
in the art, bonus indicator 70 can be operatively linked to a
"payout" mechanism which provides a bonus payout to a player
through currency chute 20 or by increasing the amount of winnings
shown in credit window 40. As stated above, the payout of the
bonus indicator can be in addition to a standard payout by the
primary gaming unit or can be in place of the payout normally
associated with the primary gaming unit.

50

5 Those familiar with gaming ~~and game shows~~ will
appreciate that players and observers typically experience a
10 heightened level of anticipation and excitement as they observe one
or more moving objects approaching a winning position. It is
therefore most preferred for the bonus indicator of the present
15 invention to be readily discernible, e.g., clearly visible and/or
audible to the player.

20 According to another preferred embodiment of the present
invention, a bonus indicator is connected to a electronic control
unit, for example a motor, which gradually decreases the rate of
25 movement of the bonus indicator before the bonus indicator stops.
According to this embodiment of the present invention, players can
be provided with a realistic sense of a totally mechanical
30 indicator. Those skilled in the art will appreciate that such a
control unit can also readily be connected to a random generator
which will randomly select the winning payout according to a
35 predetermined frequency of occurrence for each individual bonus
payout, and then cause the bonus indicator to stop at the desired
area. Those skilled in the art will also appreciate that other
40 mechanisms can be utilized for gradually decreasing the rate of
movement of the secondary payout indicator, e.g., a controlled
45 braking system.

50 According to another embodiment of the present invention,
when reels 10 display an indicia set which will provide a bonus,

5 the bonus indicator become activatable but requires intervention
by a house attendant, such as a casino attendant, in order to
actuate the bonus indicator. According to this embodiment of the
10 present invention, the casino is provided with greater control over
the actuation of the bonus indicator, and if desired, can accompany
15 the actuation of the bonus indicator with great fanfare. It will
be appreciated that the amounts of the bonus indicated in the
figures are merely for purposes of illustration and, if desired,
20 one of the amounts on the bonus indicator can have a significantly
greater value. For example, one of the areas on the bonus
indicator may correspond to a new automobile, a luxury vacation or
25 a very large sum of money.

30 While the illustrated embodiment of the present invention
in FIG. 1 is generally in the form of a rotatable wheel, other
visible, mechanical indicia can be provided, whether controlled
totally mechanically, electro-mechanically, or electronically
35 without departing from the scope of the present invention.

40 As shown in FIG. 1, in order to provide additional levels
of excitement, indicia of the possible bonuses are preferably
visibly displayed within the slot machine. For example, in one
45 illustrated embodiment, a shelf is preferably displayed comprising
piles of currency equal to the amounts on the bonus indicator.
While the actual cash is preferred, the slot machine may also be

50

5 provided with fake currency or simply indicia of actual currency
or the other bonus prizes.

10 A preferred embodiment of the present invention is
illustrated in FIG. 2 wherein a gaming device 100 comprises a
primary gaming unit in the form a standard three-reel slot machine
15 which displays reels 110. Suitable controls and currency
mechanisms including a coin slot 114, bill validator 118, payout
shoot 120 are provided. Furthermore, suitable player controls
20 including CHANGE button 132, CASH/CREDIT button 134, BET ONE button
136, SPIN button 138 and BET MAX button 130 are also provided.

25 In addition to these standard controls the control panel
of this preferred illustrated embodiment of the present invention
30 comprises a SPIN THE WHEEL button 140 which becomes actuatable when
the primary gaming unit, as indicated by reels 110, has randomly
selected one of a plurality of predetermined indicia sets. While
35 the primary gaming unit shown in the lower portion of the cabinet
of gaming device 100 will typically have the ability to provide a
plurality of winning payouts, the SPIN THE WHEEL button 140 can
40 become actuatable when the stopped reels 110 indicate some subset
of the primary unit's winning indicia, when any one of the winning
reel indicia are displayed, or further in response to one or more
45 other predetermined indicia, or a combination thereof. For
example, the SPIN THE WHEEL feature, or some other secondary game,

50

5 can be actuated or become activatable in response to a single indicia indicated on one of the reels or reel indicia.

10 When the SPIN THE WHEEL button 140 is actuated by a player, bonus wheel 150 is caused to rotate and randomly select and display one of a plurality of different areas. According to the
15 preferred illustrated embodiment, all of the bonus areas indicate an increased winning value for the player. However, it is within the scope of the present invention to provide non-monetary prizes or losing spaces wherein no additional prize is provided and/or
20 wherein the prize normally associated with the indicia shown on the primary gaming unit reels 110 is reduced. In the illustrated embodiment, a pointer 160 advantageously indicates the result of
25 the bonus indicator 150.

30 In addition to the bonus wheel 150, this preferred
35 illustrated embodiment of the present invention also comprises a bonus multiplier 170. The multiplier 170 preferably randomly selects a value by which the bonus indicated by bonus wheel 150 is multiplied. For example, the bonus indicator 170 can have an LED screen which cycles through multipliers of "times one", "times two" and "times three" which will indicate that the bonus is as indicated, doubled, or tripled, respectively. The multiplier 170
40 can be programmed to select a multiplier either totally randomly or according to some other predetermined frequency of occurrence
45 wherein certain multipliers will occur more frequently than other
50

5 multipliers. While this illustrated embodiment comprises whole
number multipliers, it is also within the scope of the present
invention to utilize values other than whole numbers or to include
10 multipliers which will result in a decrease in the value shown by
the bonus indicator 150. For example, a multiplier sequence could
15 include a "times zero" value. When bonus wheel indicator 150 is
not in use, the multiplier LED window can be set to an attract mode
shown wherein a message is displayed to players or potential
players. For example, the LED display could show a message, either
20 in complete form or can be set to sequentially display either words
or individual letters, such as "S P I N - T H E - W H E E L".

25 According to the various embodiments of the present
invention, the bonus multiplier or additional payout multiplier is
30 most preferably synchronized with the movement of the rotatable
wheel or indicia of a rotatable reel, such that the multiplier
value will change as each wheel segment passes the indicator. The
35 most preferred embodiments of the present invention additionally
comprise audible signals, such as the clicking of a clapper of the
type found on actual spinning wheel comprising a clapper indicator
40 and pegs which strike the clapper. The audible signals are
preferably also synchronized with the segments of the wheel such
that an audible signal is provided as the wheel moves from one
45 segment to another. This advantageously provides the effect of a
mechanical wheel comprising pegs moving past a mechanical clapper.

50

5

FIG. 3 illustrates a less preferred embodiment of the present invention wherein a gaming device 200 comprising similar controls as the controls illustrated in the embodiment of FIG. 3. In this illustrated embodiment, and wherein a bonus indicator 250 is in the form of an electronically generated image, such as a video screen or an LED display and provides discernible indicia, e.g., a visual video display, of a bonus wheel. For example, the video display can show a wheel of the type used in a roulette game such as the wheel 150 illustrated in FIG. 2.

20

25

The slot machine shown in FIG. 3 comprises a video display 210, such as a video screen, which displays three reels 110, each of which comprise a plurality of indicia. In addition, this slot machine comprises a video display 250, such as a second video screen, for displaying a bonus payout indicator. While separate screens are preferred, both the reels and the bonus payout indicator could be displayed on the same video screen. According to this embodiment of the present invention, the bonus payout indicator displays indicia of a wheel or a reel.

40

45

In a manner known in the art, the gaming device comprises a coin slot 214, a currency validator 218, and a coin chute 220. After placing a wager, a player determines the amount of his wager by either pressing the BET ONE button 236 or the BET MAX button 230. After the player has selected the amount of his wager, he

50

5 depresses the SPIN button 238 which "spins" the reels shown in
 video display window 210.

10 Each indicia of a displayed reel 210 is designed to
 indicate rotation and then stop in order to visually display at
15 least one, and preferably a number of indicia. When reels 210
 display a particular indicia set or one of a predetermined
 plurality of indicia sets, then the additional payout mode is
20 activated and video display 250 displaying payout indicator is
 placed in an operable state. In this illustrated embodiment, the
 displayed payout indicator 250 displays an indicia of a rotating
25 wheel comprising a plurality of distinct areas bearing indicia of
 payouts to the player. Payout indicator 250, is caused to
 selectively indicate one of the plurality of indicia, either
30 automatically, upon intervention of a casino or house attendant,
 or upon a player depressing SPIN THE WHEEL button 240 in order to
 start indicator 250 spinning. It will be appreciated that the
35 amounts of the payout indicated in FIG. 2 are merely for purposes
 of illustration and, if desired, one of the amounts on the bonus
 indicator can have a greater value, e.g., a new automobile, a
40 luxury vacation or large sum of money which may be collected
 subsequently, or lesser values, e.g., no payout.

45 The displayed reels 210 and displayed bonus indicator 250
 can be operably controlled by suitable controls to gradually slow

50

5 down as they come to a complete stop, displaying a selected reel indicia and a bonus indicia, respectively.

10 The embodiment of the present invention illustrated in FIG. 2 is considered most preferable since it is believed that 15 players prefer to see actual slot reels and an actual bonus wheel spinning in a gaming device. Other, less preferred embodiments are also possible while providing some of the advantages of the present 20 invention. Specifically, it is feasible to replace the spinning reels with other forms of standard gaming units, for example, a visible indicia of reels or indicia of playing cards, shown for 25 example on a video screen. It is also possible to replace the wheel with some other discernible indicia of a mechanical bonus indicator which is operatively connected to the first standard 30 gaming unit and which either automatically commences or is actuatable in response to the result provided by the standard 35 gaming unit. According to the present invention, both of the standard gaming unit and bonus indicator are controlled to provide random results.

40 From the foregoing description, it will be appreciated 45 that embodiments of the present invention, which are specifically directed to gaming and gaming devices, comprise three different indicators. The most preferred embodiments comprise a primary (standard) gaming unit, an additional payout indicator, preferably 50 in the form of a wheel, and a payout multiplier. While the

5 illustrated payout multiplier of the illustrated embodiments is in
the form of an electronically selected value, it is also within the
scope of the present invention to have a multiplier which involves
10 some skill on the part of a player. For example, according to an
additional preferred embodiment of the present invention, a player
will shoot actual projectiles, such as coins, at one or more
15 targets in an effort to increase the value of the multiplier. In
any of the embodiments of the present invention utilizing a
multiplier, the multiplier can affect the value of payout from the
20 standard gaming unit, the additional payout indicator, or both the
standard gaming unit and the payout indicator.

25 As stated above, the present invention also includes
methods of conducting a wagering game of chance comprising the
30 steps of providing a player with an opportunity to place a wager;
displaying a randomly selected combination of indicia, said
displayed indicia selected from the group consisting of reels,
35 indicia of reels, indicia of playing cards, and combination
thereof; generating at least one signal corresponding to at least
one select display of said indicia; providing at least one
40 discernible indicia of a mechanical bonus indicator, said bonus
indicator indicia indicating at least one of a plurality of
possible bonuses, wherein said bonus indicator indicia is in the
45 form of a wheel or reel and is actuatable in response to said
signal. A further preferred method comprises the step of
50 displaying at least one value by which a payout may be multiplied.

5 Another method of the present invention comprises the
steps of requiring at least one player to make a wager; displaying
10 at least one randomly selected playing card from a predetermined
card indicia set; displaying and rotating a rotatable wheel
comprising a plurality of indicia corresponding to a plurality of
15 prizes if said displayed playing card indicia was one of a
preselected plurality of winning card indicia; and determining a
winning payout with said wheel, wherein said winning payout is
20 randomly selected.

25 Another embodiment of the present invention in the form
of a table game is illustrated in FIG. 4 wherein a chip rack 310,
card shoe 320, discard shoe 330, wager slot 340, betting areas 350,
and secondary event wheel 360 are provided. According to this
30 embodiment of the present invention after one or more players have
placed wagers in wagering areas 350, a dealer will provide cards
to the wagering players in areas 355 and then provide cards to
35 himself in card area 370. After the cards have been dealt, the
initial bets can be resolved by comparing the players' cards to the
dealer's cards. While the illustrated game is shown as five card
40 stud poker, other games and arrangements can also be utilized
without departing from the scope of the present invention. For
example, a player's cards can be compared to other player's cards
45 or a predetermined payout schedule, or other card games can be
utilized including seven card draw, five card draw poker, black
jack, etc.

5 Upon the happening of a predetermined occurrence, such
as the receipt of one of a preselected plurality of card hands, one
10 or more of the players can be given the opportunity to spin the
payout indicator 360, which is most preferably electronically
operated by an actuation switch. The actuation switch can be
15 within reach of the players for added excitement or can be actuated
by the dealer. Alternatively, actuation by a player's actuator
switch can require prior actuation of a dealer switch which will
then render the player's switch operable. If less than all of the
20 players are going to benefit from the results of payout indicator
360, additional indicators can be positioned proximate the players
in order to indicate which players are involved in the spin of
25 payout indicator 360. In a manner similar to that shown in FIG.
2, a payout multiplier 380 is also provided. Sound effects as
30 referenced above and means for gradually decreasing the rate of
movement of the payout indicator 360 are also preferably provided.

35 In addition to the primary gaming unit or primary game,
the secondary event, and the multiplier, another preferred aspect
40 of the present invention which can be utilized with all previously
described embodiments comprises a DOUBLE-OR-NOTHING feature wherein
winning players may wager their winnings in a double-or-nothing
45 fashion. According to this feature of the present invention, a
player may be provided with the opportunity to bet on red or black
after he has won a game. For this purpose, the rotatable wheels
50 of the present invention are preferably provided with alternating

5 red and black pie-shaped segments. According to this feature, a
player can be provided with the opportunity of betting on red or
black with the opportunity of doubling his winnings if he makes a
10 correct selection. After the player makes his selection, the wheel
would be rotated to determine whether the player has successfully
doubled his winnings or has lost those winnings. A player may be
15 provided with the opportunity of utilizing the double or nothing
feature several times and/or up to a certain maximum to be
determined by the game operator.
20

According to another embodiment of the present invention,
25 the secondary gaming unit is generally in the form of a TIC-TAC-
TOE-type game. This embodiment is illustrated, in part, in FIGS.
5-8 which comprises a primary gaming unit in the form of a three
30 reel slot machine. While the primary gaming unit of this
embodiment is a three reel slot machine, other forms of primary
gaming units can be utilized without departing from the scope of
35 the present invention.

40 According to this illustrated embodiment, the primary
game has multiple pay lines. If a player deposits a single coin,
he will qualify for winning combinations only if they all appear
45 on the center pay line. If the player deposits two coins, then the
player will qualify for both the center payline and the payline
above the center payline. Other paylines are obtained with coins
50 3-5 which correspond to a lower payline, first diagonal payline,

5 and a second diagonal payline, respectively, all of which are
illustrated in FIG. 5.

10 According to this embodiment of the present invention,
a player can qualify for playing the secondary TIC-TAC-TOE-type
15 game, hereinafter referred to as TIC-TAC DISCO, if the player
obtains at least one predetermined event on the primary gaming
unit. That predetermined event can obtain a special TIC-TAC-DISCO
symbol which can be present on one of the reel strips (not shown)
20 or can comprise any one of a plurality of possible pre-determined
outcomes which qualify and activate the secondary TIC-TAC DISCO
game.
25

30 FIG. 6 illustrates one form of payout schedule for the
primary gaming unit of this embodiment of the present invention,
however, from the present description those skilled in the art will
appreciate that other payout schedules can be utilized without
35 departing from the scope of the present invention.

40 Playing the secondary event can also be dependent upon
the player wagering the maximum number of coins, for example, in
the illustrated embodiment five coins.

45 When the player qualifies for activating the secondary
TIC-TAC-DISCO game, a screen 300 and/or a TIC-TAC-TOE-type display
50 350 will randomly and alternately select X's and O's for the TIC-

5 TAC-TOE-type display 350. For example, display 300 can indicate
that for box no. 1 on display 350 an X had been selected, while on
box no. 2 an O had been selected, etc. for all nine boxes.
10 Alternatively, the X's and O's indicated on TIC-TAC-TOE-type
display 350 can be illuminated to reveal whether a given box has
been designated as an X or an O. The determination of whether a
15 particular box is designated as an X or an O can be determined
separately from other boxes or the result of the game can be
determined randomly and then a pre-determined sequence of X's and
20 O's which indicate that randomly selected final outcome can be
implemented for entertainment purposes. In addition to the display
screen 300 and the X's and O's for each box in TIC-TAC-TOE-type
25 display 300, the backgrounds of the boxes of the TIC-TAC-TOE-type
display 350 can be either darkened or illuminated in a different
form in order to indicate the designation accorded to that
30 particular box. As indicated in FIG. 7, each of the boxes in the
TIC-TAC-TOE-type display 350 are provided with numbers. In this
35 illustrated embodiment, these numbers indicate the amount of a
player's award if the player obtains a "TIC-TAC-TOE", i.e. three
in a row display of X's and O's. For example, with reference to
40 FIG. 7, if a player obtains three O's along the top boxes, then the
player would receive a payout equal to 58 coins (58 being the sum
of 10+40+8).
45

50 Alternatively, according to this embodiment of the
present invention, the player can decide whether he wishes to be

5 X's or O's, and then the player receives an award equal to the sum
of the boxes which receive X's and O's, regardless of whether the
player attains three of the same symbols in a row.

10
15
20
25
30
35
40
45
50
55

Furthermore, according to another preferred aspect of the present invention, best illustrated in FIG. 8, in addition to obtaining an award for the amount shown in the boxes, if a player achieves three symbols in a row, the player is provided with a bonus payout depending upon the number of squares which were illuminated when the player obtained three symbols in a row. As indicated, if only three squares were illuminated, the player would receive a bonus payout of 500 coins, wherein if 4 squares were illuminated then the bonus would be 100 coins, 5 squares providing 75 coins, 6 squares providing 50 coins, 7 squares providing 25 coins, 8 squares providing 20 coins, and 9 squares providing 15 coins. Still furthermore, if the player did not attain three in a row, he could be provided with a consolation price of 50 coins.

In addition to the activation of the TIC-TAC-TOE-type game, the playing of the secondary gaming unit is accompanied by the broadcasting of music from the gaming device in order to add to the excitement and entertainment of the overall experience.

Claims

5

10

15

20

25

30

35

40

45

50

55

5

WHAT IS CLAIMED IS:

10

1. A method of conducting a game of chance comprising
the steps of:

15

providing a player of with an opportunity to place a
wager to activate a primary gaming unit;
said primary gaming unit displaying a randomly selected
primary display to a player, said display comprising at least one
indicia from a plurality of possible indicia;

20

providing a secondary gaming unit comprising indicia of
a TIC-TAC-TOE game; and

25

displaying randomly selected indicia of a TIC-TAC-TOE
game with said secondary gaming unit if said primary display
comprised a predetermined display.

35

2. A method of conducting a game of chance according
to claim 1 further comprising providing said player with one of a
plurality of prizes depending upon the outcome of said secondary
gaming unit.

40

45

3. A method of conducting a game of chance according
to claim 1 wherein said primary gaming unit comprises a plurality
of reels.

50

5 4. A method of conducting a game of chance according
to claim 3 wherein said indicia which determines whether said
player can play said secondary gaming unit is only on one of said
10 reels.

15 5. A method of conducting a game of chance according
to claim 4 wherein said secondary gaming unit display comprises a
three-by-three matrix display.

20

25

30

35

40

45

50

26

SUBSTITUTE SHEET (RULE 26)

55

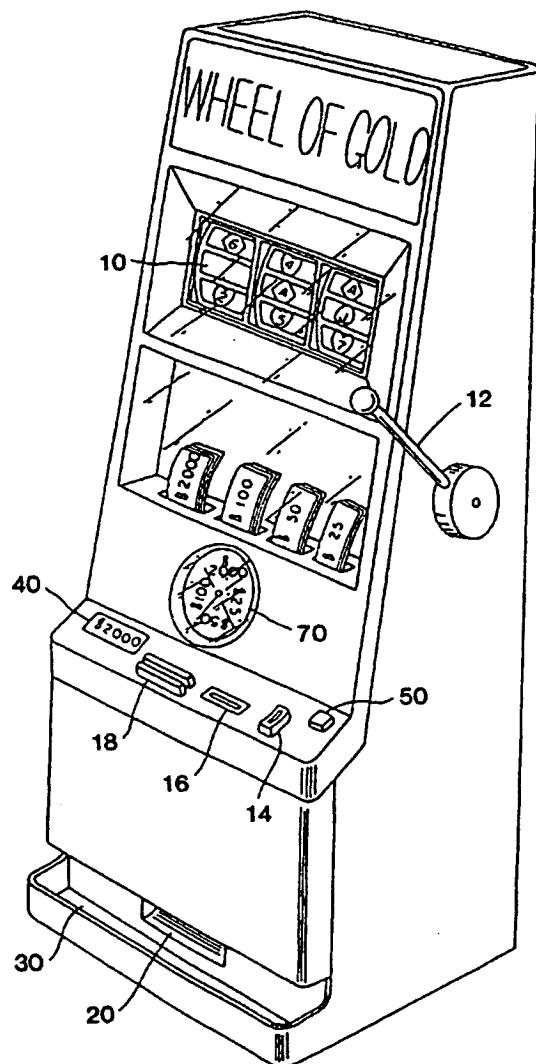


FIG. 1

SUBSTITUTE SHEET (RULE 26)

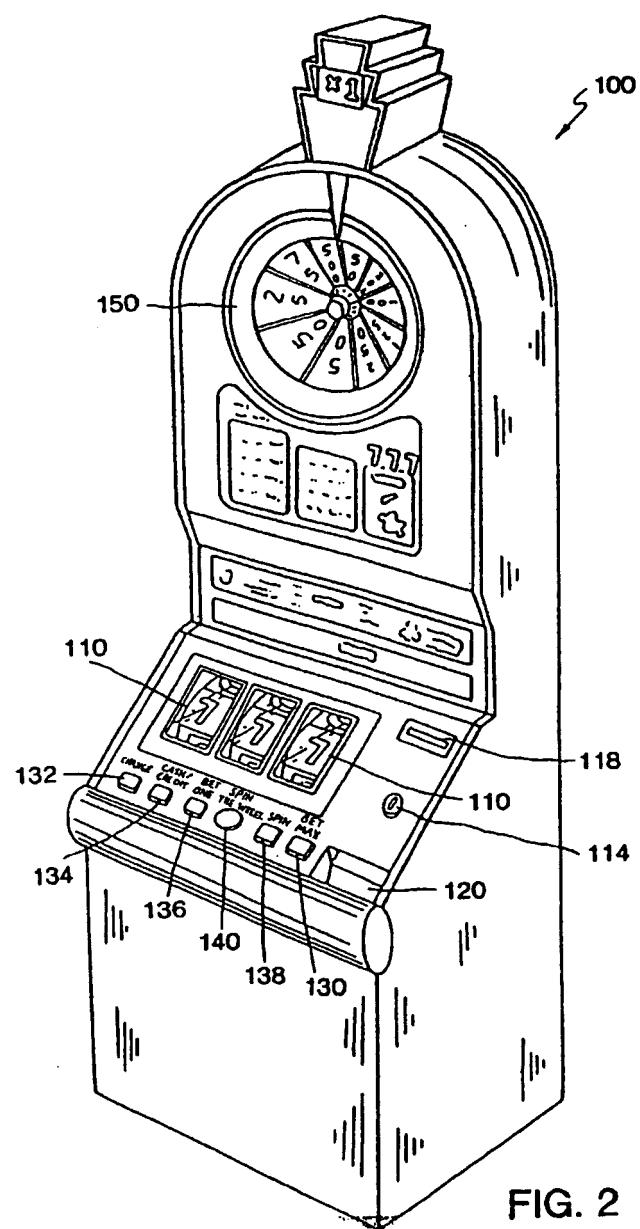


FIG. 2

SUBSTITUTE SHEET (RULE 26)

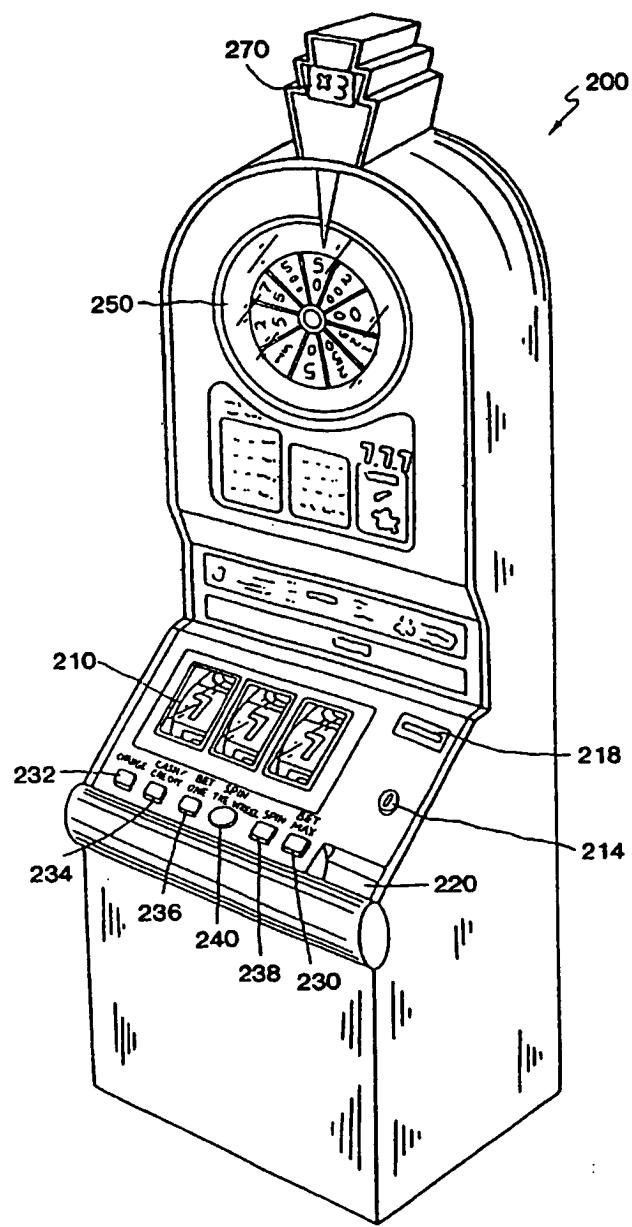


FIG. 3

SUBSTITUTE SHEET (RULE 26)

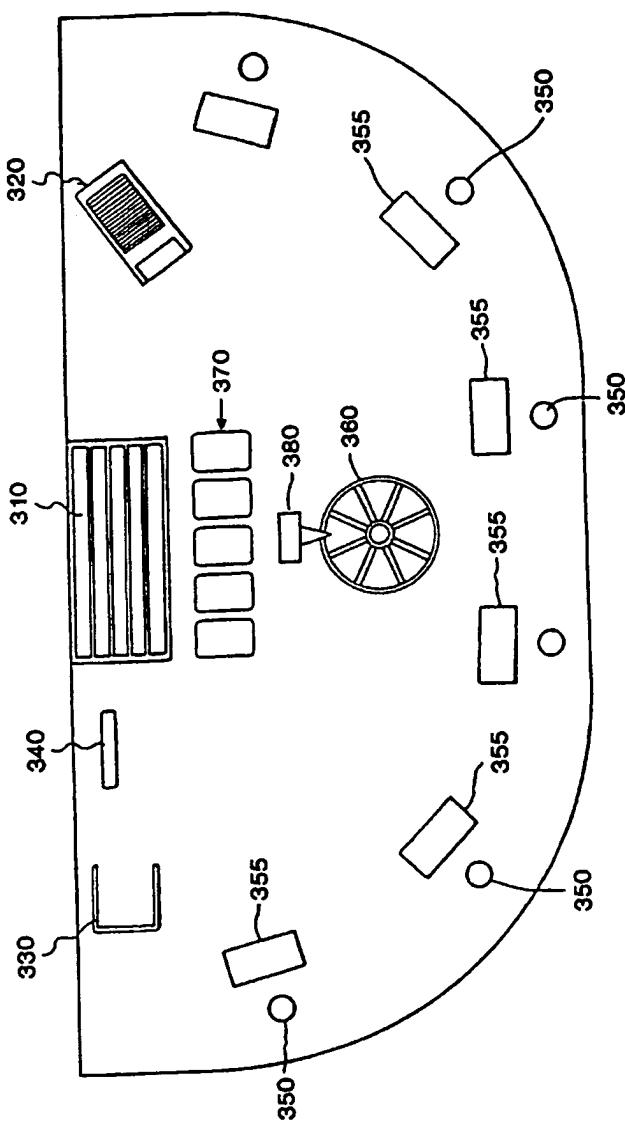


FIG. 4

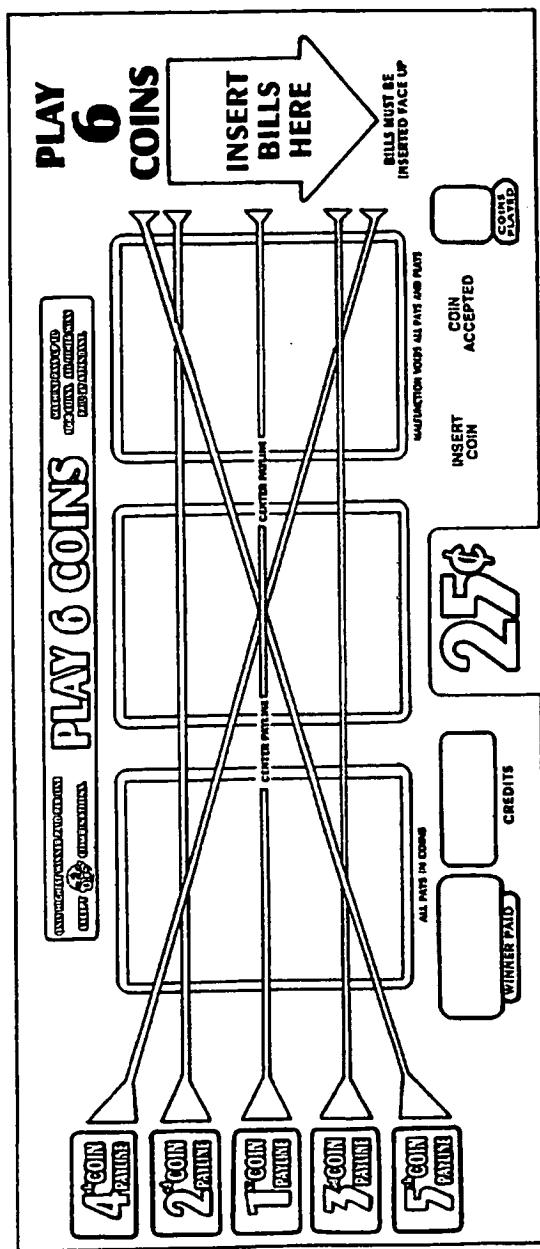


FIG. 5

SUBSTITUTE SHEET (RULE 26)

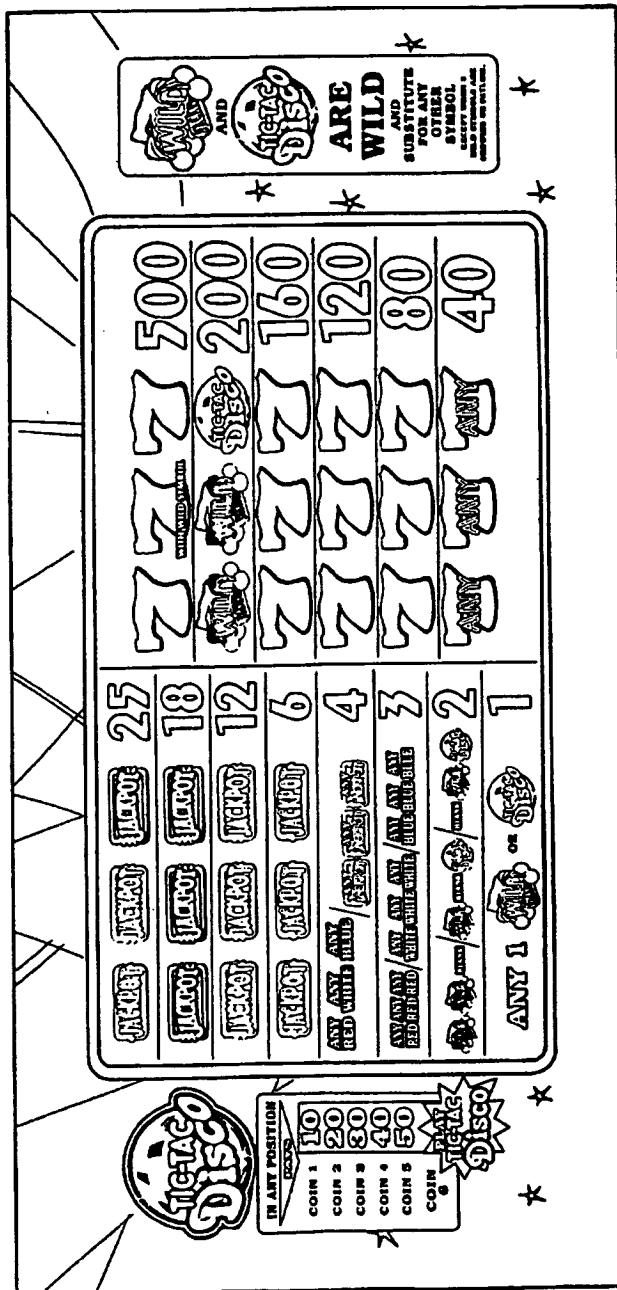


FIG. 6

SUBSTITUTE SHEET (RULE 26)

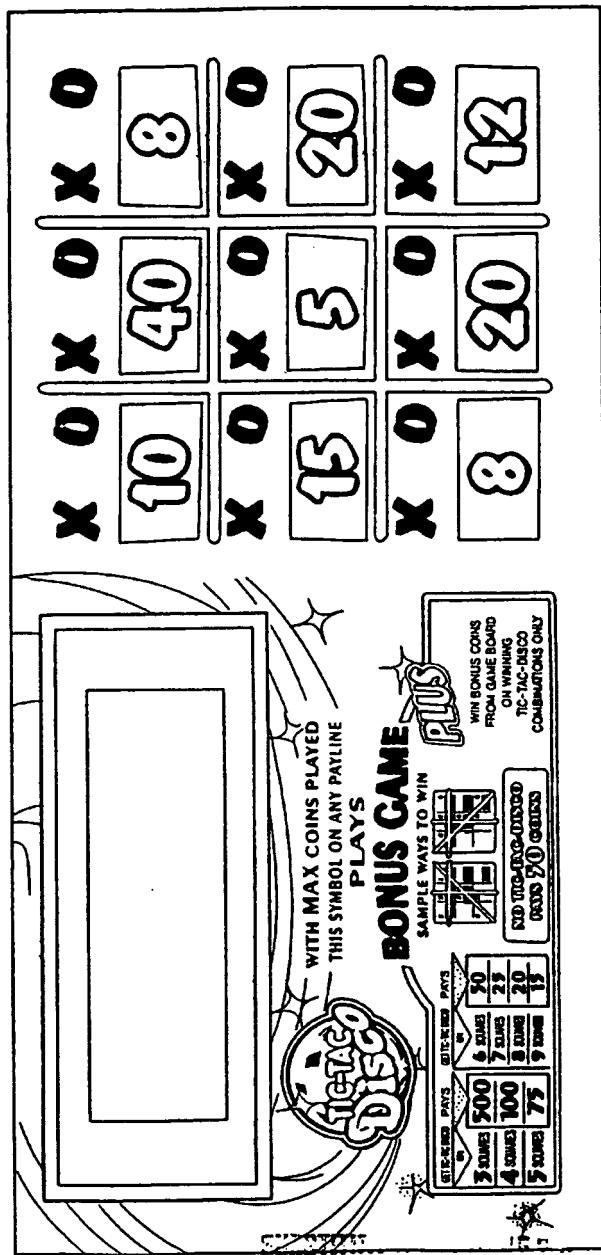


FIG. 7

SUBSTITUTE SHEET (RULE 26)

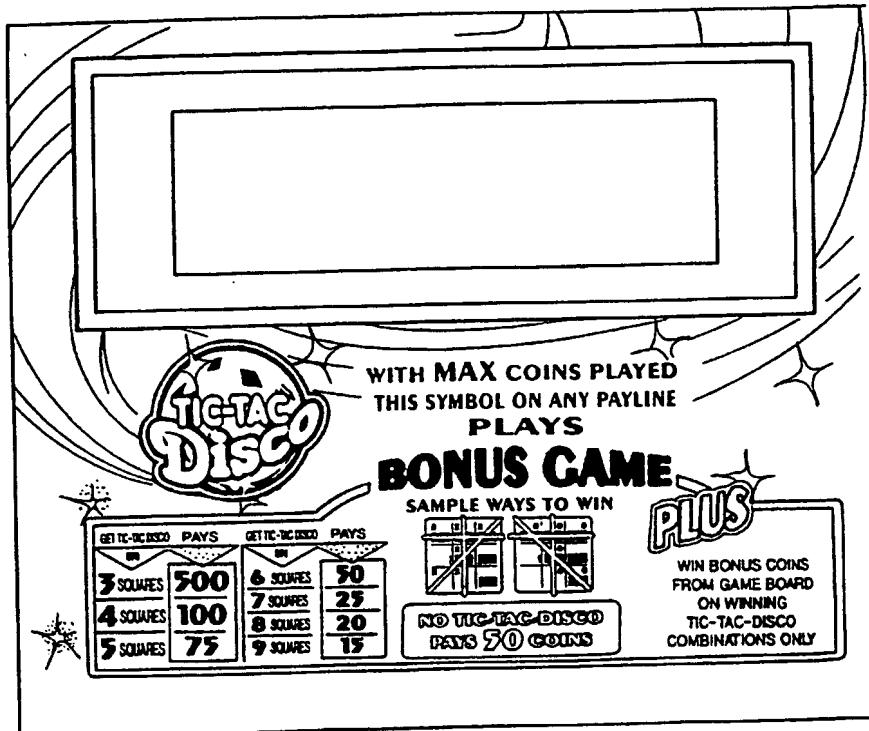
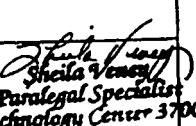


FIG. 8

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US99/21296

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(6) :G07F 17/34; A63F 9/24 US CL :273/143R, 138A According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 273/143R, 138A, 138.1, 138.2, 138R; 463/20		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2,072,395 A (KENNEDY) 30 September 1981, see entire reference.	1-3
A	GB 2,242,300 A (FARRELL et al.) 25 September 1991.	
A	GB 2,182,186 A (THOMAS) 07 May 1987.	
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier document published on or after the international filing date "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" documents published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 29 OCTOBER 1999	Date of mailing of the international search report 17 NOV 1999	
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 308-7768	Authorized officer RAEANN GORDEN Telephone No. (703) 308-8354	
 Sheila Veneczel Paralegal Specialist Technology Center 3700		

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.